

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

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May 25, 2012

10-Mer-99-0.0/4.6

10-415804

Project ID 1000000431

Addendum No. 3

Dear Contractor:

This addendum is being issued to the contract for CONSTRUCTION ON STATE HIGHWAY IN MERCED COUNTY NEAR CHOWCHILLA FROM CHOWCHILLA RIVER BRIDGE TO BUCHANAN HOLLOW ROAD.

Submit bids for this work with the understanding and full consideration of this addendum. The revisions declared in this addendum are an essential part of the contract.

Bids for this work will be opened on Wednesday, June 13, 2012, instead of the original date of Wednesday, May 30, 2012.

This addendum is being issued to set a new bid opening date as shown herein and revise the Project Plans, the Notice to Bidders and Special Provisions, and the Bid book.

Project Plan Sheets 155, 156, 157, 158, 391, 398 and 540 are revised. Copies of the revised sheets are attached for substitution for the like-numbered sheets.

Project Plan Sheets 451A, 451B, 463A, 463B, 493A, 512A and 512B are added. Copies of the added sheets are attached for addition to the project plans.

In the Notice to Bidders and Special Provisions, in the "STANDARD PLANS LIST," the following Standard Plans are added:

"RSP A77A2, RSP A77C3, RSP A77H1, RSP A77H2, NSP T3A, S11, NSP ES-8A, and NSP ES-8B."

In the Special Provisions, Section 10-1.34, "EARTHWORK," is revised as attached.

In the Special Provisions, Section 10-1.385, "EROSION CONTROL (HYDROSEED) (TYPE 1)," is added as attached.

In the Special Provisions, Section 10-1.60, "PILING," subsection "GENERAL," the sub-subsection, "Predrilled Holes," is revised as attached.

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In the Bid book, in the "Bid Item List," Items 54, 63, 93, 94, 151, 206, 207, 208 and 209 are revised and Item 58 is deleted as attached.

To Bid book holders:

Replace pages 5, 6, 7, 10 and 12A of the "Bid Item List" in the Bid book with the attached revised pages 5, 6, 7, 10, and 12A of the Bid Item List. The revised Bid Item List is to be used in the bid.

Inquiries or questions in regard to this addendum must be communicated as a bidder inquiry and must be made as noted in the Notice to Bidders section of the Notice to Bidders and Special Provisions.

Indicate receipt of this addendum by filling in the number of this addendum in the space provided on the signature page of the Bid book.

Submit bids in the Bid book you now possess. Holders who have already mailed their book will be contacted to arrange for the return of their book.

Inform subcontractors and suppliers as necessary.

This addendum and attachments are available for the Contractors' download on the Web site:

http://www.dot.ca.gov/hq/esc/oe/project_ads_addenda/10/10-415804

If you are not a Bid book holder, but request a book to bid on this project, you must comply with the requirements of this letter before submitting your bid.

Sincerely,



REBECCA D. HARNAGEL
Chief, Office of Plans, Specifications & Estimates
Office Engineer
Division of Engineering Services

Attachments

10-1.34 EARTHWORK

Earthwork shall conform to the provisions in Section 19, "Earthwork," of the Standard Specifications and these special provisions.

The grading plane of embankments beneath structure approach slabs and beneath the thickened portion of sleeper slabs shall not project above the grade established by the Engineer.

Surplus excavated material shall become the property of the Contractor and shall be disposed of in conformance with the provisions in Section 7-1.13, "Disposal of Material Outside the Highway Right of Way," of the Standard Specifications.

Where a portion of the existing surfacing is to be removed, the outline of the area to be removed shall be cut on a neat line with a power-driven saw to a minimum depth of 0.17-foot before removing the surfacing. Full compensation for cutting the existing surfacing shall be considered as included in the contract price paid per cubic yard for roadway excavation and no additional compensation will be allowed therefor.

Reinforcement or metal attached to reinforced concrete rubble placed in embankments shall not protrude above the grading plane. Prior to placement within 2 feet below the grading plane of embankments, reinforcement or metal shall be trimmed to no greater than 3/4 inch from the face of reinforced concrete rubble. Full compensation for trimming reinforcement or metal shall be considered as included in the contract prices paid per cubic yard for the types of excavation shown in the Engineer's estimate, or the contract prices paid for furnishing and placing imported borrow or embankment material, as the case may be, and no additional compensation will be allowed therefor.

The "0.5-foot" dimensions in the fifth paragraph of Section 19-3.08, "Payment," of the Standard Specifications are increased to "one foot" on this project.

Roughen embankment slopes to receive erosion control materials by either track walking or rolling with a sheepsfoot roller. Track walk slopes by running track mounted equipment perpendicular to slope contours.

Full compensation for roughening is included in the contract price paid per cubic yard for roadway excavation and no additional compensation will be allowed.

If the Contractor elects to use the "Weep Hole and Geocomposite Drain" alternative where permitted on the plans, the geocomposite drain shall conform to the details shown on the plans and the following:

- A. A Certificate of Compliance conforming to the provisions in Section 6-1.07, "Certificates of Compliance," of the Standard Specifications shall be furnished for the geocomposite drain certifying that the drain produces the required flow rate and complies with these special provisions. The Certificate of Compliance shall be accompanied by a flow capability graph for the geocomposite drain showing flow rates for externally applied pressures and hydraulic gradients. The flow capability graph shall be stamped with the verification of an independent testing laboratory.
- B. Filter fabric for geocomposite wall drain shall conform to the provisions in Section 88-1.02, "Filtration," of the Standard Specifications. Filter fabric shall be Class A.
- C. The manufactured core shall be either a preformed grid of embossed plastic, a mat of random shapes of plastic fibers, a drainage net consisting of a uniform pattern of polymeric strands forming 2 sets of continuous flow channels, or a system of plastic pillars and interconnections forming a semi rigid mat.
- D. The core material and filter fabric shall be capable of maintaining the drainage void for the entire height of geocomposite drain. Filter fabric shall be integrally bonded to the side of the core material with the drainage void. Core material manufactured from impermeable plastic sheeting having nonconnecting corrugations shall be placed with the corrugations approximately perpendicular to the drainage collection system.
- E. The geocomposite drain shall be installed with the drainage void and the filter fabric facing the embankment. The fabric facing the embankment side shall overlap a minimum of 3 inches at all joints and wrap around the exterior edges a minimum of 3 inches beyond the exterior edge. If additional fabric is needed to provide overlap at joints and wrap-around at edges, the added fabric shall overlap the fabric on the geocomposite drain at least 6 inches and be attached thereto.
- F. Should the fabric on the geocomposite drain be torn or punctured, the damaged section shall be replaced completely or repaired by placing a piece of fabric that is large enough to cover the damaged area and provide a minimum 6-inch overlap.
- G. Plastic pipe shall conform to the provisions for edge drain pipe and edge drain outlets in Section 68-3, "Edge Drains," of the Standard Specifications.
- H. Treated permeable base to be placed around the slotted plastic pipe at the bottom of the geocomposite drain shall be cement treated permeable base conforming to the provisions for cement treated permeable base in Section 29, "Treated Permeable Bases," of the Standard Specifications and these special provisions.

- I. The treated permeable base shall be enclosed with a high density polyethylene sheet or PVC geomembrane, not less than 10 mils thick, that is bonded with a suitable adhesive to the concrete and geocomposite drain. Surfaces to receive the polyethylene sheet shall be cleaned before applying the adhesive. The treated permeable base shall be compacted with a vibrating shoe type compactor.

If structure excavation or structure backfill for bridges is not otherwise designated by type and payment for the structure excavation or structure backfill has not otherwise been provided for in the Standard Specifications or these special provisions, the structure excavation or structure backfill will be measured and paid for as structure excavation (bridge) or structure backfill (bridge), respectively.

10-1.385 EROSION CONTROL (HYDROSEED) (TYPE 1)

GENERAL

Summary

This work includes removing and disposing of weeds and applying erosion control materials including seed, fiber, commercial fertilizer, organic fertilizer, straw, and tackifier to erosion control (hydroseed) areas shown on the plans.

Comply with Section 20-3, "Erosion Control," of the Standard Specifications.

Comply with "Move-In/Move-Out (Erosion Control)" of these special provisions.

If notified by the Engineer that an area is ready to receive erosion control materials, start erosion control (hydroseed) work within 5 business days of the Engineer's notification to perform the work.

The Engineer will designate the ground location of all erosion control (Hydroseed)(Type 1) areas in increments of one acre or smaller by directing the placing of stakes or other suitable markers. Furnish all tools, labor, materials, and transportation required to adequately mark the various erosion control (Hydroseed)(Type 1) locations.

MATERIALS

Seed

Seed not required to be labeled under the California Food and Agricultural Code must be tested for purity and germination by a seed laboratory certified by the Association of Official Seed Analysts or by a seed technologist certified by the Society of Commercial Seed Technologists. Measure and mix individual seed species in the presence of the Engineer.

Seed must contain at most 1.0 percent total weed seed by weight.

Deliver seed to the job site in unopened separate containers with the seed tag attached. Containers without a seed tag attached are not accepted. The Engineer takes a sample of approximately one ounce or 0.25 cup of seed for each seed lot greater than 2 pounds.

Seed must comply with the following:

Seed		
Botanical Name (Common Name)	Percent Germination (Minimum)	Pounds Pure Live Seed Per Acre (Slope Measurement)
Lipinus bicolor (Pigmy-Leaved Lupine)	70	1.7
Lupinus nanus (Sky Lupine)	70	1.5
Trifolium hirtum "Hykon" (Hykon Rose Clover)	80	1.2
Catilleja exserta (Owl's Clover)	50	0.1
Dimorphotheca sunuata (African Daisy)	70	1.3
Eschscholzia californica (California Poppy)	60	0.7
Festuca idahoensis (Idaho Fescue)	70	4.8
Lasthenia californica (Dwarf Goldfields)	50	0.2
Layia platyglossa (Tiddy Tips)	70	0.9
Linaria maroccana (Toadflax)	70	0.4
Poa secunda (scabrella) (Pine Bluegrass)	60	0.9
	Total	13.7

Seed Sampling Supplies

At the time of seed sampling, provide the Engineer a glassine lined bag and custody seal tag for each seed lot sample.

Straw

Straw must be one of the following:

1. Rice

Straw must be free of plastic, glass, metal, rocks, and refuse or other deleterious material.

Tackifier

Tackifier must be one of the following:

1. Polymeric emulsion blend

Tackifier must comply with the following:

1. Nonflammable
2. Nontoxic to aquatic organisms
3. Free from growth or germination inhibiting factors
4. Either a plant-based product or a polymeric-emulsion blend

Tackifier classified as polymeric emulsion blend must be:

1. Liquid or dry powder formulation
2. Anionic with a residual monomer content that is at most 0.05 percent by weight
3. Functional for at least 180 days
4. Prepackaged product labeled as containing one of the following as the primary active ingredient of the polymeric emulsion blend:
 - 4.1. Acrylic copolymers and polymers
 - 4.2. Polymers of methacrylates and acrylates
 - 4.3. Copolymers of sodium acrylates and acrylamides
 - 4.4. Polyacrylamide (PAM) and copolymer of acrylamide
 - 4.5. Hydrocolloid polymers

Fiber

Fiber must be one of the following:

1. Wood

Fiber must be:

1. Free from lead paint, printing ink, varnish, petroleum products, seed germination inhibitors, or chlorine bleach
2. Free from synthetic or plastic materials
3. At most 7 percent ash

Wood fiber must be:

1. Long strand, whole wood fibers, thermo-mechanically processed from clean, whole wood chips
2. Not made from sawdust, cardboard, paper, or paper byproducts
3. At least 25 percent of fibers 3/8 inch long
4. At least 40 percent held on a No. 25 sieve

Cellulose fiber must be made from natural or recycled pulp fiber, such as wood chips, sawdust, newsprint, chipboard, corrugated cardboard, or a combination of these materials.

Alternate fiber must be:

1. Long strand, whole natural fibers made from clean straw, cotton, corn, or other natural feed stock
2. At least 25 percent of fibers 3/8 inch long
3. At least 40 percent held on a No. 25 sieve

Coloring Agent

Use a biodegradable, nontoxic coloring agent free from copper, mercury, and arsenic.

CONSTRUCTION

Site Preparation

Immediately before applying seed to erosion control (Hydroseed)(Type 1) areas, remove trash and debris and weeds.

Removed weeds must be disposed of in conformance with the provisions in Section 7-1.13, "Disposal of Material Outside the Highway Right of Way," of the Standard Specifications.

Application

Apply erosion control (Hydroseed)(Type 1) materials in separate applications in the following sequence:

1. Apply the following mixture with hydroseeding equipment at the rates indicated within 60 minutes after the seed has been added to the mixture:

Material	Pounds Per Acre (Slope Measurement)
Seed	13.7
Fiber	536
Commercial Fertilizer	138
Organic Fertilizer	

2. Apply straw at the rate of 2 tons per acre based on slope measurements. Incorporation of straw will not be required. Distribute straw evenly without clumping or piling.
3. Apply the following mixture with hydroseeding equipment at the corresponding rates:

Material	Pounds Per Acre (Slope Measurement)
Fiber	536
Commercial Fertilizer	138
Tackifier	10

The ratio of total water to total tackifier in the mixture must be as recommended by the manufacturer.

Hydraulic application of erosion control (Hydroseed)(Type 1) materials for rolled erosion control product (netting) areas must be applied by hose, from the ground. Erosion control (hydroseed) materials must be applied onto the slope face such that the materials are well integrated into the rolled erosion control product (netting) and in contact with ground surface. Application must be perpendicular to the slope face such that rolled erosion control product (netting) materials are not damaged or displaced. Once straw work is started in an area, complete tackifier applications in that area within the same work shift.

The Engineer may change the rates of erosion control (Hydroseed)(Type 1) materials to meet field conditions.

For any area where erosion control (Hydroseed)(Type 1) materials are to be applied, the application of all erosion control (Hydroseed)(Type 1) materials to be applied to that area must be completed within 72 hours from when the first materials were applied.

MEASUREMENT AND PAYMENT

Erosion control (Hydroseed)(Type 1) will be measured by the square foot or by the acre, whichever is designated in the Engineer's Estimate. The area will be calculated on the basis of actual or computed slope measurements.

The contract price paid per square foot or acre for erosion control (Hydroseed)(Type 1) includes full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in erosion control (Hydroseed)(Type 1) complete in place, as shown on the plans, as specified in the Standard Specifications and these special provisions, and

Predrilled Holes

Piles shall be driven in oversized drilled holes in conformance with the provisions in Section 49-1.06, "Predrilled Holes," of the Standard Specifications at the locations and to the corresponding bottom of hole elevations listed in the following table:

Bridge Name or Number	Abutment Number	Elevation of Bottom of Hole
Sandy Mush OH (Br No 39-0236)	1 and 3	212 feet
Plainsburg OC (Br No 39-0237)	1 and 3	212 feet

BID ITEM LIST
10-415804

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
41	152299	RESET MILEPOST MARKER	EA	1		
42	152320	RESET ROADSIDE SIGN	EA	1		
43	152370	RELOCATE MAILBOX	EA	6		
44	152390	RELOCATE ROADSIDE SIGN	EA	29		
45	153103	COLD PLANE ASPHALT CONCRETE PAVEMENT	SQYD	16,400		
46	153229	REMOVE CONCRETE BARRIER (TYPE K)	LF	760		
47	153231	REMOVE CONCRETE BARRIER (TYPE 50C)	LF	500		
48	155003	CAP INLET	EA	2		
49	156590	REMOVE CRASH CUSHION (SAND FILLED)	EA	6		
50	157551	BRIDGE REMOVAL, LOCATION A	LS	LUMP SUM	LUMP SUM	
51	157552	BRIDGE REMOVAL, LOCATION B	LS	LUMP SUM	LUMP SUM	
52	160101	CLEARING AND GRUBBING	LS	LUMP SUM	LUMP SUM	
53	170101	DEVELOP WATER SUPPLY	LS	LUMP SUM	LUMP SUM	
54	190101	ROADWAY EXCAVATION	CY	1,370,000		
55	190110	LEAD COMPLIANCE PLAN	LS	LUMP SUM	LUMP SUM	
56 (F)	192003	STRUCTURE EXCAVATION (BRIDGE)	CY	1,319		
57 (F)	193003	STRUCTURE BACKFILL (BRIDGE)	CY	995		
58		BLANK				
59	198007	IMPORTED MATERIAL (SHOULDER BACKING)	TON	1,710		
60	203002	EROSION CONTROL (COMPOST BLANKET)	CY	2,690		

BID ITEM LIST
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Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
61	203005	EROSION CONTROL (DRILL SEED) (ACRE)	ACRE	30		
62	203026	MOVE-IN/MOVE-OUT (EROSION CONTROL)	EA	16		
63	021077	EROSION CONTROL (HYDROSEED) (TYPE 1)	ACRE	250		
64	021078	EROSION CONTROL (HYDROSEED) (TYPE 2)	ACRE	30		
65	208765	8" BITUMINOUS COATED CORRUGATED STEEL PIPE CONDUIT (.064" THICK)	LF	600		
66	220101	FINISHING ROADWAY	LS	LUMP SUM	LUMP SUM	
67	240100	LIME	TON	3,330		
68	240105	LIME STABILIZED SOIL	SQYD	248,000		
69	250401	CLASS 4 AGGREGATE SUBBASE	CY	66,400		
70	260201	CLASS 2 AGGREGATE BASE	CY	74,700		
71	270065	ASPHALTIC EMULSION (CURING SEAL)	TON	160		
72	374207	CRACK TREATMENT	LNMI	10		
73	390131	HOT MIX ASPHALT	TON	110,000		
74	394050	RUMBLE STRIP	STA	590		
75	394060	DATA CORE	LS	LUMP SUM	LUMP SUM	
76	394074	PLACE HOT MIX ASPHALT DIKE (TYPE C)	LF	540		
77	394076	PLACE HOT MIX ASPHALT DIKE (TYPE E)	LF	14,000		
78	394077	PLACE HOT MIX ASPHALT DIKE (TYPE F)	LF	1,150		
79	394090	PLACE HOT MIX ASPHALT (MISCELLANEOUS AREA)	SQYD	7,890		
80	397005	TACK COAT	TON	130		

BID ITEM LIST

10-415804

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
81	401050	JOINTED PLAIN CONCRETE PAVEMENT	CY	12,100		
82	401081	SHOULDER RUMBLE STRIP (CONCRETE PAVEMENT, ROLLED-IN INDENTATIONS)	STA	400		
83	401083	SHOULDER RUMBLE STRIP (CONCRETE PAVEMENT, GROUND-IN INDENTATIONS)	STA	8		
84	404092	SEAL PAVEMENT JOINT	LF	252,000		
85	404093	SEAL ISOLATION JOINT	LF	3,620		
86	043215	FURNISH PILING (CLASS 90) (ALTERNATIVE X)	LF	1,069		
87	043216	DRIVE PILE (CLASS 90) (ALTERNATIVE X)	EA	44		
88	043217	FURNISH PILING (CLASS 140) (ALTERNATIVE X)	LF	4,072		
89	043218	DRIVE PILE (CLASS 140) (ALTERNATIVE X)	EA	112		
90	043219	FURNISH 15" PRECAST PRESTRESSED CONCRETE PILING	LF	1,631		
91	499057	DRIVE 15" PRECAST PRESTRESSED CONCRETE PILE	EA	50		
92	500001	PRESTRESSING CAST-IN-PLACE CONCRETE	LS	LUMP SUM	LUMP SUM	
93 (F)	510051	STRUCTURAL CONCRETE, BRIDGE FOOTING	CY	299		
94 (F)	510053	STRUCTURAL CONCRETE, BRIDGE	CY	3,596		
95 (F)	510086	STRUCTURAL CONCRETE, APPROACH SLAB (TYPE N)	CY	498		
96 (F)	021079	STRUCTURAL CONCRETE, WINGWALL	CY	54		
97 (F)	510090	STRUCTURAL CONCRETE, BOX CULVERT	CY	178		
98 (F)	510502	MINOR CONCRETE (MINOR STRUCTURE)	CY	158		
99 (F)	043221	COBBLESTONE TEXTURE	SQFT	360		
100	519081	JOINT SEAL (MR 1/2")	LF	472		

BID ITEM LIST

10-415804

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
141	802501	4' CHAIN LINK GATE (TYPE CL-6)	EA	3		
142	802580	12' CHAIN LINK GATE (TYPE CL-6)	EA	16		
143	810116	SURVEY MONUMENT (TYPE D)	EA	5		
144	820107	DELINEATOR (CLASS 1)	EA	240		
145	820110	MILEPOST MARKER	EA	12		
146	820118	GUARD RAILING DELINEATOR	EA	31		
147	820132	OBJECT MARKER (TYPE L)	EA	21		
148	820134	OBJECT MARKER (TYPE P)	EA	22		
149	832002	METAL BEAM GUARD RAILING (STEEL POST)	LF	1,400		
150	832070	VEGETATION CONTROL (MINOR CONCRETE)	SQYD	17,400		
151 (F)	833033	CHAIN LINK RAILING (TYPE 7 MODIFIED)	LF	600		
152	021082	DOUBLE METAL BEAM GUARD RAILINGS (STEEL POST)	LF	600		
153	839521	CABLE RAILING	LF	120		
154	839541	TRANSITION RAILING (TYPE WB)	EA	22		
155	839561	RAIL TENSIONING ASSEMBLY	EA	6		
156	839581	END ANCHOR ASSEMBLY (TYPE SFT)	EA	7		
157	839584	ALTERNATIVE IN-LINE TERMINAL SYSTEM	EA	3		
158	839585	ALTERNATIVE FLARED TERMINAL SYSTEM	EA	22		
159	839601	CRASH CUSHION (TYPE CAT)	EA	6		
160	839602	CRASH CUSHION (TYPE CAT) BACKUP	EA	6		

BID ITEM LIST
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Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
201	023779	WELL VIDEO	LF	310		
202	023780	WATER QUALITY TESTING	LS	LUMP SUM	LUMP SUM	
203	023781	WATER WELL EQUIPMENT	LS	LUMP SUM	LUMP SUM	
204	760035	WELL SCREEN	LF	79		
205	023782	WELL PUMP ELECTRICAL SYSTEM	LS	LUMP SUM	LUMP SUM	
206	400050	CONTINUOUSLY REINFORCED CONCRETE PAVEMENT	CY	66,700		
207	400062	CONTINUOUSLY REINFORCED CONCRETE PAVEMENT (TERMINAL JOINT TYPE B)	LF	72		
208	400075	CONTINUOUSLY REINFORCED CONCRETE PAVEMENT (PAVEMENT ANCHOR)	LF	920		
209	400090	CONTINUOUSLY REINFORCED CONCRETE PAVEMENT (EXPANSION JOINT, TYPE AN)	LF	380		
210	519091	JOINT SEAL (MR 1 1/2")	LF	380		
211	999990	MOBILIZATION	LS	LUMP SUM	LUMP SUM	

TOTAL BID:

\$ _____